

Attorney's Docket No.: 16163-021002 / GI 545

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert Powers et al.

Art Unit: 1631

Serial No.: 09/942,055

Examiner: Channing S. Mahatan

Filed

: August 29, 2001

Title

: STRUCTURE OF A FREE REGULATOR OF G-PROTEIN SIGNALING (RGS4)

AND METHODS FOR IDENTIFYING AGONISTS AND ANTAGONIST

USING SAME

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

<u>INFORMATION DISCLOSURE STATEMENT</u>

Applicant submits the references listed on the attached form PTO-1449.

This statement is being filed after a first Office action on the merits, but before receipt of a final Office action or a Notice of Allowance. A check for \$180 in payment of the late submission fee of §1.17(p) is enclosed. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16163-021002	Application No. 09/942,055	
	pplicant	Applicant Robert Powers et al.		-
(Use several sh	eets if necessary)	Filing Date August 29, 2001	Group Art Unit 1631	

			U.S. Paten	t Documents			· · · · · · · · · · · · · · · · · · ·
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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	Foreig	n Patent Doo	uments or Pu	blished Foreign	Patent A	Application	าร	
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	Other Documents (include Author, Title, Date, and Place of Publication)				
Examiner	Desig.				
Initial	ID	Document			
•	AC	Arshavsky & Pugh, (1998) Lifetime Regulation of G Protein-Effexor Complex: Emerging			
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	AD	Clore, et al., (1989), Determination of Three-Dimensional Structures of Proteins and Nucleic Acids in Solution by Nuclear Magnetic Resonance Spectroscopy, Crit Rev Biochem Mol Biol, 24(5):479-			
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<u> </u>	AG	Hepler, et al., (1999) Emerging Roles for RGS Proteins in Cell Signalling, TiPS 20(9):376-382			
	AH	Hunt, et al., (1996) RGS10 is a Selective Activator of G _α , GTPase Activity, Nature, 383:175-177			
	AI	Koelle & Horvitz, (1996) EGL-10 Regulates G Protein Signaling in the C. elegans Nervous System and Shares a Conserved Domain with Many Mammalian Proteins, Cell, 84:115-125			
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	AM	Posner et al., (1999) Modulation of the Affinity and Selectivity of RGS Protein Interaction with G_a Subunits by a Conserved Asparagine / Serine Residue, Biochemistry, 38:7773-7779			
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	AP	Wall, et al., (1998) Structural Basis of Activity and Subunit Recognition in G Protein Heterotrimers, Structure, 6:1169-1183			

Examiner Signature	Date Considered
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Substitute Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16163-021002	Application No. 09/942,055
by Applicant	Applicant Robert Powers et al.		
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MAIN	Other Documents (include Author, Title, Date, and Place of Publication)				
Examiner Initial	Desig. ID	Document			
	AQ	Wuthrich, et al., (1983) Pseudo-structures for the 20 Common Amino Acids for Use in Studies of Protein Conformations by Measurements of Intramolecular Proton-Proton Distance Constraints with Nuclear Magnetic Resonance, J. Mol. Biol., 169(4):949-961			
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